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COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

Vol. 15, No. 32

WEEKLY REPORT

Week Ending August 13, 1966

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

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EPIDEMIOLOGIC NOTES AND REPORTS

POLIOMYELITIS OUTBREAK – Texas

To date in 1966 a total of 52 cases of paralytic poliomyelitis have been reported in the United States. Of these, 43 are from the State of Texas; 10 in this total have been reported since the week ending July 30 (MMWR, Vol. 15, No. 30). One patient who was diagnosed in Michigan had lived in Texas until 3 days before onset. Two other cases, one from Illinois and one from Washington, had travelled in Texas shortly before onset of illness.

Thirty-seven of the 43 Texas cases have occurred since the first of May. There were 11 cases with onset in May, 11 in June, 12 in July and 3 to date in August. All were in infants or preschool children except for a 7-year-old child. There have been two deaths.

Cases have been reported from 17 counties in south Texas (Figure 1) which have a combined population of 1.6 million people. In recent weeks there has been a tendency for northward extension of the disease to south central

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	32nd WEEK ENDED		MEDIAN 1961–1965	CUMULATIVE, FIRST 32 WEEKS		
	AUGUST 13, 1966	AUGUST 14, 1965		1966	1965	MEDIAN 1961–1965
Aseptic meningitis	81	51	60	1,181	1,019	1,026
Brucellosis	7	8	10	132	148	257
Diphtheria	9	–	–	108	89	160
Encephalitis, primary:						
Arthropod-borne & unspecified	37	30	- - -	862	982	- - -
Encephalitis, post-infectious	8	16	- - -	540	499	- - -
Hepatitis, serum	29	520	734	842	21,310	27,608
Hepatitis, infectious	526			20,079		
Measles (rubeola)	782	921	1,568	186,936	237,409	382,274
Poliomyelitis, Total (including unspecified)	4	–	13	57	35	159
Paralytic	4	–	11	52	30	132
Nonparalytic	–	–	- - -	–	5	- - -
Meningococcal infections, Total	44	25	29	2,569	2,192	1,640
Civilian	44	25	- - -	2,305	2,013	- - -
Military	–	–	- - -	264	179	- - -
Rubella (German measles)	302	- - -	- - -	40,618	- - -	- - -
Streptococcal sore throat & Scarlet fever	4,249	4,190	3,439	290,387	269,548	236,160
Tetanus	2	14	- - -	99	164	- - -
Tularemia	8	7	- - -	97	155	- - -
Typhoid fever	10	13	15	216	242	268
Typhus, tick-borne (Rky. Mt. Spotted fever)	12	8	- - -	160	176	- - -
Rabies in Animals	77	69	60	2,672	2,917	2,602

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	4	Botulism:	4
Leptospirosis:	42	Trichinosis: N.Y.C.-1, N.Y.UpS.-1, Pa.-1	61
Malaria: Pa.-9, S.C.-1, Ga.-1	198	Rabies in Man:	1
Psittacosis:	26	Rubella, Congenital Syndrome:	18
Typhus, murine:	14	Plague:	4

POLIOMYELITIS OUTBREAK – Texas

(Continued from front page)

Texas. All cases in Ector, Concho, Pecos and Bexar Counties had onsets after the first of July.

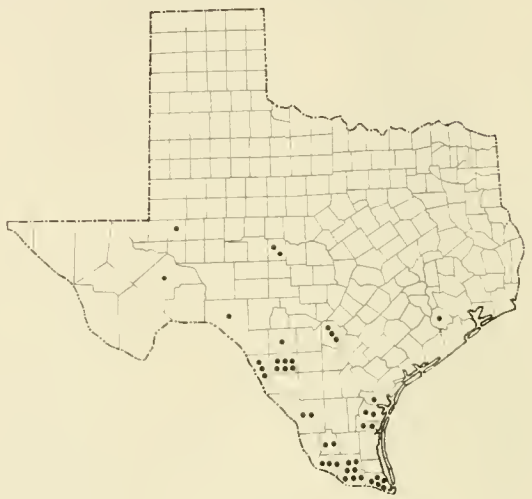
Information on vaccination status is known for 42 cases; none had received a complete series of poliomyelitis immunization. A total of 31 had never received any poliomyelitis vaccine, 3 had received one or two doses of inactivated vaccine, 4 a single dose of trivalent live (oral) vaccine, and 4 a single dose of monovalent live vaccine.

Type I poliovirus has been implicated by viral studies of stool or serum specimens from 14 patients. No other types of poliovirus have been found to date.

Programs of poliomyelitis immunization are being planned by local health departments and local medical societies with support from the State Department of Health. So far this year more than 83,000 doses of trivalent live poliovirus vaccine have been distributed by the State Department of Health for use in the 17 counties which have reported cases of poliomyelitis.

(Reported by Dr. Van C. Tipton, State Epidemiologist, Texas State Department of Health.)

Figure 1
CASES OF PARALYTIC POLIOMYELITIS BY COUNTY
TEXAS – 1966



ENCEPHALITIS – Dallas, Texas

During the last week in July and first 2 weeks in August, 33 clinical cases of encephalitis have been reported from Dallas. Two deaths have occurred. In addition there have been 25 cases of aseptic meningitis.

Serologic studies at the Texas State Department of Health laboratories indicate that at least some of the cases of encephalitis are caused by the St. Louis encephalitis virus. Hemagglutination inhibition antibody titer determinations have revealed a 4-fold increase in the sera of two patients and initial titers of 1:10 or greater in sera from seven others.

None of the 25 patients with aseptic meningitis have been evaluated serologically to date. Viral studies of earlier patients with this syndrome have confirmed the presence of enteroviruses in the Dallas area.

Encephalitis has occurred in all age groups from 5 to 87 years but has been more frequent in older age groups. There is no distinct geographical clustering of cases.

Clinical specimens and mosquitoes have been obtained for viral isolation, but results are not yet available. *Culex quinquefasciatus* has been the predominent mosquito species collected. Intensive control measures, directed at both larval and adult mosquitoes, have been initiated in selected areas throughout the city and aerospraying is being considered. Intensive surveillance and investigation are continuing.

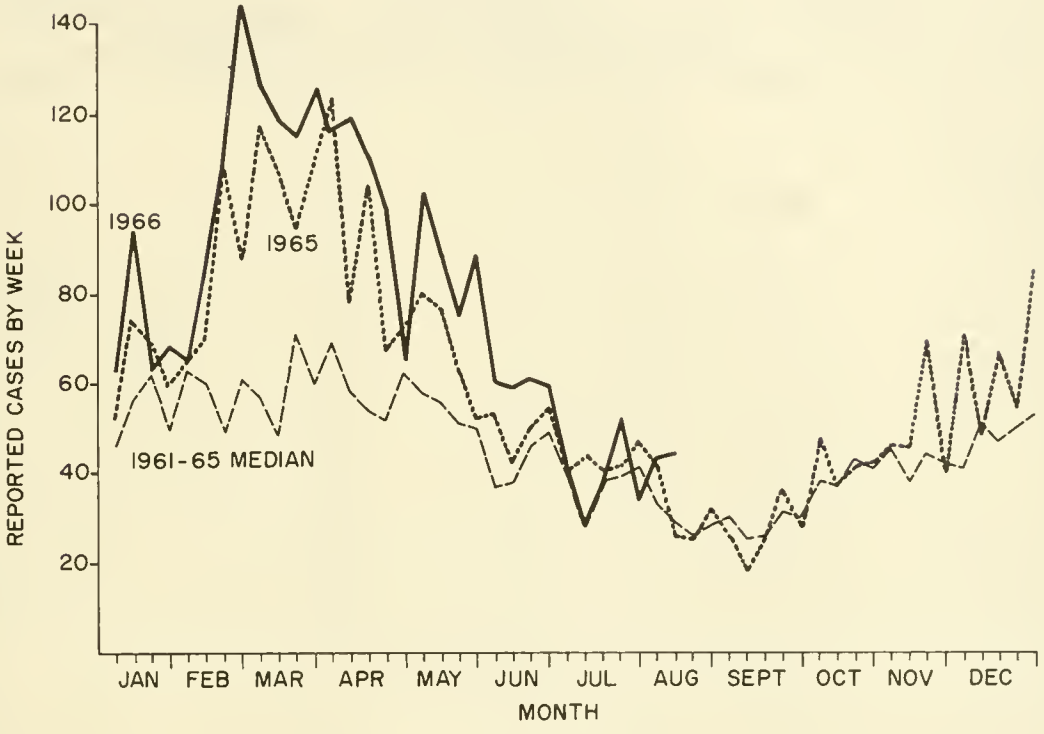
(Reported by Dr. Van C. Tipton, State Epidemiologist, Texas State Department of Health; Dr. Hal J. Dewlett, Director, Dallas City Health Department; and a team from CDC.)

CURRENT TRENDS
MENINGOCOCCAL INFECTION – 1966

Through the 32nd week of 1966 a total of 2,569 cases of meningococcal infection has been reported to the Communicable Disease Center, an increase of 17.2 percent over the 2,192 cases notified during the comparable period in 1965. Although the numbers of meningococcal infections reported weekly in July and August 1966 have closely followed the expected seasonal low level, the weekly totals during the months March through June 1966 were substantially above the 1965 level (Figure 2). Table 1 indicates that all regions of the country except the New England, Middle Atlantic and South Atlantic Divisions contributed to this spring increase. Of the total number of cases reported thus far in 1966, 10.3 percent have occurred among military personnel compared to 8.2 percent during the similar period in 1965.

(Table and Text continued on page 280)

Figure 2
MENINGOCOCCAL INFECTIONS BY WEEK OF REPORT
1965, 1966 AND MEDIAN 1961-65 – UNITED STATES



SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS, JULY 1966 and JULY 1965

CASES OF PRIMARY AND SECONDARY SYPHILIS: Reporting Areas July 1966 and July 1965 - Provisional Data

Reporting Area	July		Cumulative Jan-July	
	1966	1965	1966	1965
NEW ENGLAND	30	27	272	261
Maine	2	-	5	1
New Hampshire	2	3	7	22
Vermont	-	1	1	2
Massachusetts	21	16	188	152
Rhode Island	1	1	18	10
Connecticut	4	6	53	74
MIDDLE ATLANTIC	273	428	2,355	2,724
Upstate New York	22	61	213	299
New York City	153	239	1,465	1,620
Pa. (Excl. Phila.)	8	9	107	91
Philadelphia	23	22	151	154
New Jersey	67	97	419	560
EAST NORTH CENTRAL	232	230	1,818	1,737
Ohio	51	50	345	369
Indiana	9	1	54	33
Downstate Illinois	12	16	113	128
Chicago	75	88	588	708
Michigan	74	69	651	448
Wisconsin	11	6	67	51
WEST NORTH CENTRAL	25	42	246	293
Minnesota	3	8	19	59
Iowa	5	4	38	14
Missouri	8	12	100	138
North Dakota	1	-	5	1
South Dakota	1	-	24	26
Nebraska	2	15	22	45
Kansas	5	3	38	10
SOUTH ATLANTIC	578	568	3,656	3,946
Delaware	6	5	25	34
Maryland	46	46	322	252
District of Columbia	40	36	267	287
Virginia	35	31	181	207
West Virginia	13	3	42	39
North Carolina	72	102	543	600
South Carolina	80	61	538	488
Georgia	95	66	604	625
Florida	191	218	1,134	1,414

Reporting Area	July		Cumulative Jan-July	
	1966	1965	1966	1965
EAST SOUTH CENTRAL	204	209	1,333	1,657
Kentucky	13	7	76	83
Tennessee	36	42	176	343
Alabama	112	105	739	897
Mississippi	43	55	342	334
WEST SOUTH CENTRAL	221	229	1,506	1,389
Arkansas	13	18	85	140
Louisiana	49	68	361	392
Oklahoma	13	4	84	76
Texas	146	139	976	781
MOUNTAIN	34	49	234	334
Montana	1	-	22	8
Idaho	-	-	1	1
Wyoming	-	-	-	2
Colorado	4	7	29	24
New Mexico	8	8	53	64
Arizona	18	28	110	187
Utah	-	1	5	9
Nevada	3	5	14	39
PACIFIC	119	184	1,048	1,229
Washington	3	5	23	47
Oregon	7	3	33	21
California	104	174	970	1,144
Alaska	2	1	5	5
Hawaii	3	1	17	12
U. S. TOTAL	1,716	1,966	12,468	13,570
TERRITORIES	47	60	560	461
Puerto Rico	44	56	544	450
Virgin Islands	3	4	16	11

Note: Cumulative Totals include revised and delayed reports through previous months.

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 13, 1966 AND AUGUST 14, 1965 (32nd WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	ENCEPHALITIS			DIPHTHERIA		HEPATITIS		
				Primary including unsp. cases		Post-Infectious			Serum	Infectious	Both Types
	1966	1965	1966	1966	1965	1966	1966	1965	1966	1966	1965
UNITED STATES...	81	51	7	37	30	8	9	-	29	526	520
NEW ENGLAND.....	10	2	1	1	-	-	-	-	2	16	29
Maine.....	-	-	-	-	-	-	-	-	-	7	12
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	7
Vermont.....	-	-	-	-	-	-	-	-	-	1	-
Massachusetts.....	9	1	-	-	-	-	-	-	1	2	7
Rhode Island.....	1	1	-	-	-	-	-	-	1	2	1
Connecticut.....	-	-	1	1	-	-	-	-	-	4	2
MIDDLE ATLANTIC.....	6	2	1	3	4	3	-	-	15	95	94
New York City.....	1	1	-	1	2	-	-	-	12	20	18
New York, Up-State.	1	-	-	-	-	1	-	-	1	31	25
New Jersey.....	-	1	1	1	1	-	-	-	2	18	16
Pennsylvania.....	4	-	-	1	1	2	-	-	-	26	35
EAST NORTH CENTRAL...	6	9	1	15	2	-	-	-	2	74	90
Ohio.....	3	1	-	11	2	-	-	-	1	29	19
Indiana.....	-	-	-	-	-	-	-	-	-	8	11
Illinois.....	1	-	1	4	-	-	-	-	1	7	25
Michigan.....	2	2	-	-	-	-	-	-	-	27	32
Wisconsin.....	-	6	-	-	-	-	-	-	-	3	3
WEST NORTH CENTRAL...	2	3	2	1	4	1	-	-	-	41	24
Minnesota.....	2	3	-	-	-	1	-	-	-	1	4
Iowa.....	-	-	2	-	-	-	-	-	-	16	8
Missouri.....	-	-	-	-	-	-	-	-	-	19	3
North Dakota.....	-	-	-	-	-	-	-	-	-	1	1
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	1	-	-	-	-	-	-	2
Kansas.....	-	-	-	-	4	-	-	-	-	4	6
SOUTH ATLANTIC.....	12	3	1	4	5	1	9	-	3	57	60
Delaware.....	-	-	-	-	-	-	-	-	-	-	-
Maryland.....	1	-	-	-	2	-	-	-	1	14	6
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	1
Virginia.....	-	-	-	1	-	-	-	-	-	9	11
West Virginia.....	4	-	-	-	-	-	-	-	-	-	14
North Carolina.....	-	-	-	-	-	-	-	-	1	8	5
South Carolina.....	-	1	-	-	-	-	8	-	-	1	7
Georgia.....	-	-	1	-	-	-	1	-	-	15	-
Florida.....	7	2	-	3	3	1	-	-	1	10	16
EAST SOUTH CENTRAL...	3	7	1	2	2	1	-	-	-	29	33
Kentucky.....	1	1	-	-	-	-	-	-	-	7	4
Tennessee.....	1	6	1	2	2	1	-	-	-	8	7
Alabama.....	1	-	-	-	-	-	-	-	-	6	13
Mississippi.....	-	-	-	-	-	-	-	-	-	8	9
WEST SOUTH CENTRAL...	10	7	-	1	4	-	-	-	-	42	55
Arkansas.....	-	-	-	-	-	-	-	-	-	3	9
Louisiana.....	-	-	-	-	4	-	-	-	-	6	10
Oklahoma.....	-	-	-	-	-	-	-	-	-	1	2
Texas.....	10	7	-	1	-	-	-	-	-	32	34
MOUNTAIN.....	-	2	-	2	6	-	-	-	-	17	24
Montana.....	-	-	-	-	-	-	-	-	-	-	1
Idaho.....	-	-	-	-	-	-	-	-	-	-	3
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-
Colorado.....	-	-	-	1	6	-	-	-	-	5	-
New Mexico.....	-	-	-	-	-	-	-	-	-	4	7
Arizona.....	-	2	-	1	-	-	-	-	-	7	10
Utah.....	-	-	-	-	-	-	-	-	-	1	3
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	32	16	-	8	3	2	-	-	7	155	111
Washington.....	-	-	-	1	-	1	-	-	-	9	7
Oregon.....	-	-	-	-	-	-	-	-	-	24	14
California.....	32	14	-	7	3	1	-	-	7	120	88
Alaska.....	-	-	-	-	-	-	-	-	-	-	2
Hawaii.....	-	2	-	-	-	-	-	-	-	2	-
Puerto Rico.....	-	-	-	-	-	-	-	-	-	22	28

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

AUGUST 13, 1966 AND AUGUST 14, 1965 (32nd WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS				RUBELLA
							Total		Paralytic		
	1966	Cumulative		1966	Cumulative		1966	1965	1966	Cumulative 1966	1966
		1966	1965		1966	1965					
UNITED STATES...	782	186,936	237,409	44	2,569	2,192	4	-	4	52	302
NEW ENGLAND.....	17	2,220	36,681	-	113	111	-	-	-	-	37
Maine.....	-	194	2,781	-	9	16	-	-	-	-	14
New Hampshire.....	3	78	381	-	9	7	-	-	-	-	-
Vermont.....	4	225	1,246	-	4	6	-	-	-	-	-
Massachusetts.....	4	765	19,238	-	44	35	-	-	-	-	3
Rhode Island.....	-	72	3,896	-	12	14	-	-	-	-	4
Connecticut.....	6	886	9,139	-	35	33	-	-	-	-	16
MIDDLE ATLANTIC.....	35	17,871	14,439	6	303	289	-	-	-	-	24
New York City.....	13	8,236	2,248	1	42	51	-	-	-	-	10
New York, Up-State.	19	2,466	4,044	3	87	80	-	-	-	-	14
New Jersey.....	-	1,844	2,503	1	88	76	-	-	-	-	-
Pennsylvania.....	3	5,325	5,644	1	86	82	-	-	-	-	-
EAST NORTH CENTRAL...	218	67,965	54,850	7	398	299	-	-	-	-	150
Ohio.....	9	6,324	8,822	-	107	79	-	-	-	-	2
Indiana.....	6	5,621	1,791	3	69	39	-	-	-	-	12
Illinois.....	13	11,257	2,589	1	76	81	-	-	-	-	8
Michigan.....	134	14,117	26,190	1	105	65	-	-	-	-	44
Wisconsin.....	56	30,646	15,458	2	41	35	-	-	-	-	84
WEST NORTH CENTRAL...	10	8,657	16,383	-	140	110	-	-	-	1	7
Minnesota.....	1	1,639	625	-	33	22	-	-	-	1	-
Iowa.....	4	5,302	8,969	-	22	7	-	-	-	-	2
Missouri.....	-	529	2,578	-	54	50	-	-	-	-	1
North Oakota.....	5	1,072	3,650	-	9	8	-	-	-	-	4
South Oakota.....	-	40	112	-	4	2	-	-	-	-	-
Nebraska.....	-	75	449	-	8	10	-	-	-	-	-
Kansas.....	NN	NN	NN	-	10	11	-	-	-	-	-
SOUTH ATLANTIC.....	87	14,938	24,519	12	433	423	-	-	-	1	18
Oelaware.....	5	256	501	-	4	6	-	-	-	-	-
Maryland.....	5	2,095	1,134	2	45	40	-	-	-	-	4
Oist. of Columbia..	-	380	73	-	11	8	-	-	-	-	-
Virginia.....	-	2,090	4,008	1	48	48	-	-	-	-	2
West Virginia.....	35	5,133	13,473	1	24	24	-	-	-	-	8
North Carolina.....	22	453	378	2	106	82	-	-	-	-	-
South Carolina.....	1	653	1,007	-	46	57	-	-	-	-	3
Georgia.....	-	233	612	6	63	53	-	-	-	1	-
Florida.....	19	3,645	3,333	-	86	105	-	-	-	-	1
EAST SOUTH CENTRAL...	84	19,517	13,573	6	223	170	-	-	-	3	28
Kentucky.....	28	4,693	2,408	2	82	68	-	-	-	-	4
Tennessee.....	41	12,165	7,771	1	73	51	-	-	-	-	24
Alabama.....	3	1,663	2,293	3	49	31	-	-	-	1	-
Mississippi.....	12	996	1,101	-	19	20	-	-	-	2	-
WEST SOUTH CENTRAL...	123	23,943	30,432	4	363	301	3	-	3	45	-
Arkansas.....	-	966	1,081	-	33	14	-	-	-	-	-
Louisiana.....	-	98	103	-	136	168	-	-	-	1	-
Oklahoma.....	4	474	202	-	18	18	-	-	-	1	-
Texas.....	119	22,405	29,046	4	176	101	3	-	3	43	-
MOUNTAIN.....	95	11,759	19,481	-	80	68	-	-	-	-	19
Montana.....	-	1,801	3,690	-	4	2	-	-	-	-	-
Idaho.....	11	1,531	2,739	-	5	8	-	-	-	-	-
Wyoming.....	1	145	841	-	6	5	-	-	-	-	-
Colorado.....	38	1,269	5,588	-	41	13	-	-	-	-	6
New Mexico.....	7	1,115	674	-	10	10	-	-	-	-	-
Arizona.....	27	5,254	1,259	-	10	16	-	-	-	-	13
Utah.....	11	601	4,487	-	-	12	-	-	-	-	-
Nevada.....	-	43	203	-	4	2	-	-	-	-	-
PACIFIC.....	113	20,066	27,051	9	516	421	1	-	1	2	19
Washington.....	4	3,462	7,207	-	37	33	1	-	1	2	6
Oregon.....	27	1,682	3,166	-	33	30	-	-	-	-	5
California.....	31	14,406	12,787	9	427	335	-	-	-	-	2
Alaska.....	51	391	170	-	15	16	-	-	-	-	4
Hawaii.....	-	125	3,721	-	4	7	-	-	-	-	2
Puerto Rico.....	53	2,557	2,269	-	10	5	-	-	-	1	-

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 13, 1966 AND AUGUST 14, 1965 (32nd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966
UNITED STATES...	4,249	2	99	8	97	10	216	12	160	77	2,672
NEW ENGLAND.....	488	-	2	-	1	-	4	-	2	-	62
Maine.....	4	-	-	-	-	-	-	-	-	-	22
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	21
Vermont.....	61	-	-	-	-	-	-	-	-	-	17
Massachusetts.....	59	-	2	-	1	-	1	-	1	-	2
Rhode Island.....	32	-	-	-	-	-	-	-	-	-	-
Connecticut.....	332	-	-	-	-	-	3	-	1	-	-
MIDDLE ATLANTIC.....	62	-	11	-	-	3	38	3	35	2	175
New York City.....	2	-	4	-	-	1	16	-	-	-	-
New York, Up-State.	59	-	2	-	-	1	8	-	12	2	164
New Jersey.....	NN	-	1	-	-	-	7	-	10	-	-
Pennsylvania.....	1	-	4	-	-	1	7	3	13	-	11
EAST NORTH CENTRAL...	293	1	8	-	12	1	29	3	14	10	365
Ohio.....	22	-	3	-	3	1	14	2	8	4	180
Indiana.....	57	-	1	-	3	-	2	-	-	1	80
Illinois.....	76	1	2	-	5	-	3	1	6	1	38
Michigan.....	99	-	2	-	-	-	4	-	-	1	30
Wisconsin.....	39	-	-	-	1	-	6	-	-	3	37
WEST NORTH CENTRAL...	203	-	6	2	10	-	16	-	2	13	604
Minnesota.....	2	-	1	-	-	-	-	-	-	3	139
Iowa.....	35	-	1	-	-	-	4	-	-	1	125
Missouri.....	2	-	4	2	5	-	8	-	1	5	188
North Dakota.....	105	-	-	-	-	-	1	-	-	2	23
South Dakota.....	12	-	-	-	2	-	-	-	-	2	63
Nebraska.....	-	-	-	-	1	-	1	-	-	-	17
Kansas.....	47	-	-	-	2	-	2	-	1	-	49
SOUTH ATLANTIC.....	710	-	25	-	9	2	40	4	72	15	348
Delaware.....	6	-	-	-	-	-	1	-	1	-	-
Maryland.....	37	-	2	-	1	-	7	2	22	-	1
Dist. of Columbia..	-	-	-	-	-	-	2	-	-	-	-
Virginia.....	232	-	4	-	2	-	8	1	21	6	195
West Virginia.....	160	-	-	-	1	-	1	-	-	2	42
North Carolina.....	7	-	3	-	2	-	3	1	16	-	3
South Carolina.....	23	-	1	-	1	1	7	-	5	-	-
Georgia.....	2	-	6	-	2	1	2	-	7	5	66
Florida.....	243	-	9	-	-	-	9	-	-	2	41
EAST SOUTH CENTRAL...	855	-	11	1	18	-	25	2	25	15	344
Kentucky.....	38	-	1	-	2	-	3	1	5	1	67
Tennessee.....	636	-	1	1	10	-	11	-	15	9	257
Alabama.....	105	-	6	-	4	-	6	1	5	-	12
Mississippi.....	76	-	3	-	2	-	5	-	-	5	8
WEST SOUTH CENTRAL...	494	1	21	5	39	1	24	-	6	17	545
Arkansas.....	-	-	2	5	31	-	1	-	2	-	57
Louisiana.....	-	-	5	-	3	-	7	-	-	2	27
Oklahoma.....	23	-	1	-	4	-	8	-	4	2	140
Texas.....	471	1	13	-	1	1	8	-	-	13	321
MOUNTAIN.....	666	-	1	-	5	3	12	-	3	1	55
Montana.....	29	-	-	-	2	-	-	-	-	-	7
Idaho.....	27	-	-	-	-	-	-	-	-	-	-
Wyoming.....	13	-	-	-	-	-	-	-	-	-	-
Colorado.....	291	-	1	-	-	-	3	-	2	-	8
New Mexico.....	147	-	-	-	1	2	2	-	1	-	11
Arizona.....	53	-	-	-	1	1	3	-	-	-	26
Utah.....	104	-	-	-	1	-	3	-	-	-	-
Nevada.....	2	-	-	-	-	-	1	-	-	1	3
PACIFIC.....	478	-	14	-	3	-	28	-	1	4	174
Washington.....	15	-	-	-	-	-	11	-	-	3	8
Oregon.....	12	-	1	-	-	-	1	-	-	-	2
California.....	359	-	13	-	3	-	14	-	1	1	164
Alaska.....	33	-	-	-	-	-	-	-	-	-	-
Hawaii.....	59	-	-	-	-	-	2	-	-	-	-
Puerto Rico.....	4	-	31	-	-	-	6	-	-	2	10

Week No. 32

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED AUGUST 13, 1966

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
NEW ENGLAND:	665	400	28	38
Boston, Mass.	217	128	5	12
Bridgeport, Conn.	34	24	2	-
Cambridge, Mass.	26	17	-	3
Fall River, Mass.	26	16	1	2
Hartford, Conn.	37	19	2	4
Lowell, Mass.	27	20	3	-
Lynn, Mass.	26	16	1	-
New Bedford, Mass.	21	13	1	-
New Haven, Conn.	51	26	-	1
Providence, R. I.	59	34	2	8
Somerville, Mass.	12	8	1	1
Springfield, Mass.	47	32	6	1
Waterbury, Conn.	30	14	-	3
Worcester, Mass.*	52	33	4	3
MIDDLE ATLANTIC:	2,980	1,723	104	129
Albany, N. Y.	49	28	1	4
Allentown, Pa.	31	22	-	1
Buffalo, N. Y.	113	72	1	6
Camden, N. J.	33	23	1	1
Elizabeth, N. J.	25	18	-	-
Erie, Pa.	42	21	3	3
Jersey City, N. J.	59	34	3	3
Newark, N. J.	85	39	8	2
New York City, N. Y.	1,440	829	48	61
Paterson, N. J.	37	25	2	1
Philadelphia, Pa.	499	271	13	29
Pittsburgh, Pa.	190	95	3	6
Reading, Pa.	52	34	6	1
Rochester, N. Y.	115	67	1	7
Schenectady, N. Y.	37	25	-	1
Scranton, Pa.	42	31	5	-
Syracuse, N. Y.	44	33	1	1
Trenton, N. J.	28	15	1	-
Utica, N. Y.	23	16	3	-
Yonkers, N. Y.	36	25	4	2
EAST NORTH CENTRAL:	2,472	1,326	72	163
Akron, Ohio	61	31	-	3
Canton, Ohio	39	27	1	-
Chicago, Ill.	727	361	29	40
Cincinnati, Ohio	144	76	1	8
Cleveland, Ohio	186	89	-	4
Columbus, Ohio	112	62	2	7
Dayton, Ohio	79	40	1	8
Detroit, Mich.	344	179	9	29
Evansville, Ind.	42	23	2	5
Flint, Mich.	41	20	2	5
Fort Wayne, Ind.	35	19	2	2
Gary, Ind.	33	12	2	6
Grand Rapids, Mich.	54	33	6	8
Indianapolis, Ind.	135	81	7	10
Madison, Wis.	35	21	-	-
Milwaukee, Wis.	130	75	1	14
Peoria, Ill.	46	27	-	2
Rockford, Ill.	30	23	1	3
South Bend, Ind.	31	24	4	2
Toledo, Ohio	98	58	2	6
Youngstown, Ohio	70	45	-	1
WEST NORTH CENTRAL:	783	461	19	33
Des Moines, Iowa	57	34	4	3
Duluth, Minn.	30	20	4	2
Kansas City, Kans.	36	15	2	4
Kansas City, Mo.	120	77	1	5
Lincoln, Nebr.	20	11	-	1
Minneapolis, Minn.	109	69	-	4
Omaha, Nebr.	82	46	1	3
St. Louis, Mo.	202	112	3	10
St. Paul, Minn.	69	44	1	1
Wichita, Kans.	58	33	3	-
SOUTH ATLANTIC:	1,078	526	42	90
Atlanta, Ga.	128	63	4	12
Baltimore, Md.	238	117	7	13
Charlotte, N. C.	33	14	-	-
Jacksonville, Fla.	76	35	1	7
Miami, Fla.	81	47	1	9
Norfolk, Va.	49	21	5	5
Richmond, Va.	72	31	1	6
Savannah, Ga.	28	9	1	2
St. Petersburg, Fla.	66	50	7	2
Tampa, Fla.	78	42	11	3
Washington, D. C.	191	77	4	30
Wilmington, Del.	38	20	-	1
EAST SOUTH CENTRAL:	698	343	32	32
Birmingham, Ala.	120	59	3	6
Chattanooga, Tenn.	48	24	5	1
Knoxville, Tenn.	39	29	-	-
Louisville, Ky.	135	33	13	5
Memphis, Tenn.	159	97	2	11
Mobile, Ala.	39	17	-	3
Montgomery, Ala.	46	23	-	2
Nashville, Tenn.	112	61	9	4
WEST SOUTH CENTRAL:	1,065	518	30	66
Austin, Tex.	51	27	2	-
Baton Rouge, La.	25	11	-	3
Corpus Christi, Tex.	32	17	-	-
Dallas, Tex.	127	59	1	7
El Paso, Tex.	39	18	3	4
Fort Worth, Tex.	59	30	-	4
Houston, Tex.	166	68	3	4
Little Rock, Ark.	63	31	5	6
New Orleans, La.	163	78	6	14
Oklahoma City, Okla.	86	46	1	4
San Antonio, Tex.	132	74	2	11
Shreveport, La.	57	23	2	6
Tulsa, Okla.	65	36	5	3
MOUNTAIN:	403	211	17	36
Albuquerque, N. Mex.	32	17	5	1
Colorado Springs, Colo.	19	12	-	1
Denver, Colo.	126	56	4	19
Ogden, Utah	20	14	2	2
Phoenix, Ariz.	80	42	1	7
Pueblo, Colo*	18	9	1	2
Salt Lake City, Utah	57	32	3	2
Tucson, Ariz.	51	29	1	2
PACIFIC:	1,510	908	42	92
Berkeley, Calif.	-	-	-	-
Fresno, Calif.	48	28	1	1
Glendale, Calif*	36	26	-	1
Honolulu, Hawaii	38	15	-	3
Long Beach, Calif.	61	45	2	3
Los Angeles, Calif*	494	287	20	36
Oakland, Calif.	82	50	2	9
Pasadena, Calif.	34	27	1	-
Portland, Oreg.	105	66	-	6
Sacramento, Calif.	58	33	1	4
San Diego, Calif.	94	58	2	4
San Francisco, Calif.	186	105	4	9
San Jose, Calif.	38	25	2	1
Seattle, Wash.	128	67	5	8
Spokane, Wash.	72	51	2	6
Tacoma, Wash.	36	25	-	1
Total	11,654	6,416	386	679

*Estimate - based on average percent of divisional total.

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages	410,358
All Causes, Age 65 and over	236,548
Pneumonia and Influenza, All Ages	18,029
All Causes, Under 1 Year of Age	21,441

MENINGOCOCCAL INFECTION – 1966

(Continued from page 274)

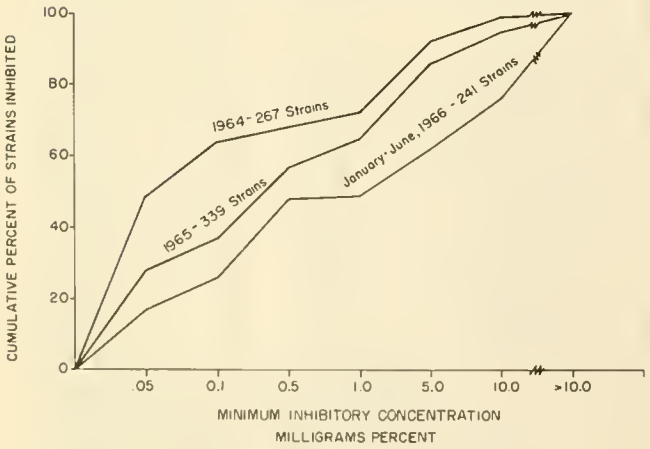
Table 1

Meningococcal Infections – United States
Total Cases Reported to CDC
1st through 32nd week, 1965 and 1966

	1966	1965	Percent Increase
United States	2,569	2,192	17.2
New England	113	111	1.8
Middle Atlantic	303	289	4.8
East North Central	398	299	33.1
West North Central	140	110	27.3
South Atlantic	433	423	2.4
East South Central	223	170	31.2
West South Central	363	301	20.6
Mountain	80	68	17.6
Pacific	516	421	22.6

Figure 3 shows the susceptibility to sulfadiazine of meningococci submitted to the Communicable Disease Center in 1964, 1965 and the first half of 1966. The trend toward increasing sulfonamide resistance is clearly evident. In 1964, 64 percent of strains were inhibited by 0.1 mg. percent of sulfadiazine; only 27 percent of strains were inhibited at that level during the first 6 months of 1966. Similarly, in 1964 only 8 percent of strains required 10.0 mg. percent or more of sulfadiazine for inhibition, while during the first half of 1966 about 35 percent of strains were resistant to this high degree.

Figure 3
SUSCEPTIBILITY OF MENINGOCOCCI TO SULFADIAZINE*



*ISOLATED FROM BLOOD OR CEREBROSPINAL FLUID SUBMITTED TO THE CDC

(Reported by the Bacterial Diseases Section, Epidemiology Branch, and the Bacteriology Section, Laboratory Branch, CDC.)

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THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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